## What is claimed is:

1. A method of driving in a display:

receiving an input signal having a first frequency;

5 generating an intermediate signal from the input signal;

detecting whether the intermediate signal has contiguous alternating states;

counting a number of contiguous non-alternating states if the intermediate signal does not have contiguous alternating states; and

determining whether the number is greater than one.

- 2. The method according to claim 1, wherein the input signal includes a vertical synchronization signal.
  - 3. The method according to claim 1, wherein the input signal includes a data enable signal.
- 20 4. The method according to claim 1, wherein a reference signal having a substantially the same frequency as the first frequency is used to determine whether the intermediate signal has contiguous alternating states.
- 25 5. The method according to claim 1, wherein the input signal is from a computer and is for a liquid crystal display.
- 30 6. The method according to claim 1, wherein the input signal is determined to have an error if the number is greater than one

- 7. A method of driving a display comprising: receiving an input signal having a first frequency; generating an intermediate signal from the input signal;
- determining whether the intermediate signal has contiguous alternating states;

counting a number of contiguous non-alternating states if the intermediate signal does have contiguous alternating states; and

- determining whether the number is equal to at least two.
  - 8. The method according to claim 7, wherein the input signal includes a vertical synchronization signal.
  - 9. The method according to claim 7, wherein the input signal includes a data enable signal.
  - 10. The method according to claim 7, wherein the first frequency of the input signal is compared to a reference frequency in determining whether the intermediate signal has contiguous alternating states.
- 11. The method according to claim 7, wherein the input signal is from a computer and is for a liquid crystal display.

25

5

12. A method of driving a display comprising:

receiving an input signal having a first period corresponding to a number of lines in the display;

determining whether the first period is less than a first reference period; and

outputting a signal of a first state if the first period is less than the first reference period.

- 13. The method according to claim 13, wherein the receiving, determining and outputting steps are repeated and determining if the first state is output a second time.
  - 14. A method of driving a display comprising:

receiving an input signal having a first period corresponding to a number of lines in the display;

determining whether the first period is greater than a first reference period; and

outputting a signal of a first state if the first 20 period is greater than the first reference period.

- 15. The method according to claim 14, wherein the receiving, determining and outputting steps are repeated and determining if the first state is output a second time.
- 16. A method of driving a display comprising:

receiving an input signal having a first period corresponding to a number of lines in the display;

determining whether the first period is less than a first reference period and greater than a second reference period; and

outputting a signal of a first state if the first

period is less than the first reference period and greater than the second reference period.

- 17. The method according to claim 16, wherein the receiving, determining and outputting steps are repeated and determining if the first state is output a second time.
  - 18. A method of driving in a display:
- 10 receiving a vertical synchronization signal;

generating an intermediate signal from the vertical synchronization signal, the intermediate signal indicating whether the vertical synchronization signal has an error; and

- outputting a desired video signal to the display when the error is detected.
  - 19. The method according to claim 18, wherein the desired video signal is an all black signal.
  - 20. The method according to claim 18, wherein the desired video signal includes a color signal.
- 21. The method according to claim 18, wherein the desired video signal includes an image signal based on a previous image signal.
  - 22. The method according to claim 18, wherein the desired video signal includes a message signal.
- 30 23. The method according to claim 18, wherein the desired video signal changes with time.
  - 24. A method of driving in a display:

20

receiving a date enable signal;

generating an intermediate signal from the data enable signal, the intermediate signal indicating whether the data enable signal has an error; and

- outputting a desired video signal to the display when the error is detected.
  - 25. The method according to claim 24, wherein the desired video signal is an all black signal.
  - 26. The method according to claim 24, wherein the desired video signal includes a color signal.
- 27. The method according to claim 24, wherein the desired video signal includes an image signal based on a previous image signal.
  - 28. The method according to claim 24, wherein the desired video signal includes a message signal.
  - 29. The method according to claim 24, wherein the desired video signal changes with time.
- 30. A liquid crystal display device including a timing controller provided with a signal presence determiner for detecting an application of an input signal from an interface, wherein said signal presence determiner comprising:
- an oscillator for generating a reference clock having
  the same frequency as a horizontal synchronizing signal
  and a pre-synchronizing signal having the same frequency
  as a vertical synchronizing signal;
  - a period detector for comparing a data enable signal

from the exterior thereof with the reference clock to output a period of the input signal with the aid of a detection reference signal and the pre-synchronizing signal;

a period comparator for comparing a period range between a desired maximum value and a desired minimum value of the input signal; and

signal presence/absence comparing means for determining a presence/absence of the input signal in response to a pulse number of the input signal detected within a period range between the maximum value and the minimum value during an application interval of the detection reference signal.

- 15 31. The liquid crystal display device as claimed in claim 30, wherein said period range between the maximum value and the minimum value of the period comparator can be controlled by a user.
- 30. The liquid crystal display device as claimed in claim 30, wherein said pulse number of the signal presence/absence comparing means can be controlled by a user.
- 25 33. A method of driving a liquid crystal display device including a timing controller provided with a signal presence determiner for detecting an application of an input signal from an interface, said method comprising the steps of:
- generating a reference clock having the same frequency as a horizontal synchronizing signal and a presynchronizing signal having the same frequency as a vertical synchronizing signal;

10

15

comparing a data enable signal from the exterior with the reference clock to output a period of the input signal with the aid of a detection reference signal and the pre-synchronizing signal;

comparing a period range between a desired maximum value and a desired minimum value of the input signal; and

determining a presence/absence of the input signal in response to a pulse number of the input signal detected within a period range between the maximum value and the minimum value during an application interval of the detection reference signal.

- 34. The method as claimed in claim 33, wherein said period range between the maximum value and the minimum value can be controlled by a user.
- 35. The method as claimed in claim 33, wherein said pulse number of the input signal can be controlled by a user.